

Master Minimum Equipment List (MMEL)

Revision: 3 Date: 09/16/2014

ROBINSON HELICOPTER COMPANY R22 R22 AL PHA R22 RETA R22 MARINER

R22, R22 ALPHA, R22 BETA, R22 MARINER (H10WE)

R44, R44 II (H11NM)

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MASTER MINIMUM EQUIPMENT LIST

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R22, R22 ALPHA, R22 BETA,

Engine Indicating

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R22, R22 ALPHA, R22 BETA, R22 MARINER R44, R44 II

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LOG OF REVISIONS

Rev. No.	Date	Revision Description	
Original	10/25/1993	Entry from approval date stamp	
1	2/01/2007	Definitions, guidelines, 21-1, 25-1	
2	11/28/2013	All pages updated to JASC Coding format and incorporation of Global Change (GC) Policy Letters	
3	09/16/2014	Added Global Policy Letter PL-87, added "NOTE:" to Highlights of Change, Page No. IV. Updated Provisos as noted by change bars. Format corrections to the entire document.	I

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		HIGHLIGHTS C	F CHANGE				
JASC	Item		Explanation				
		This Master Minimum Equiprin compliance with the Feder System/Component (JASC) download or viewing at: (http://av-info.faa.gov/sdrx/re) This replaces the former Airlingted in previous documents format and as the title sugger Component Code. The first the similar to ATA Coding for the the JASC Code is the Component. The item number additional Components with NOTE: Revision 2a of this Minimum Made to entries contained in Installed; and, 3. Number Reprovisos. These columns we Letter PL-25, Rev. 20, PL-31 PL-116, Rev. 3. For Example: JASC Code 2 "Electrical Power" system, ar "Alternator-Generator Drive"	ral Aviation Administration Code Table, and is availa ferences.aspx) Ine Transport Association JASC Coding is a four-dists, it contains a System Good of the System of the System Code which defines a sequential number of the same JASC Code. MEL incorporates update Columns: 1. Repair Cate of	(ATA) coding git number Code and a Code which is last two digits in the specific given for d changes gory; 2. Number e applicable with Policy Y: 9, and esents the epresents the			
2370 2370	-01 -02	Added Global Policy Letter 2 Added Global Policy Letter 2 Added Global Policy Letter 8	9, Rev 5, 8/10/2010 (CVF	R)			
2370	-03	Added Global Policy Letter 2					
2500	-03	Added Global Policy Letter 1			П		
2562	-01	Added Global Policy Letter 1		, ,			
3300	-01	Added Global Policy Letter 1	27, Revision 0, dated 6/0	7/2010 (NVIS)			
3452	-02	Added Global Policy Letter 7					
3461	-01	Added Global Policy Letter 9 Management System)					
3461	-02	Added Global Policy Letter 9 Management System)	8, Rev 0, 1/20/1999 (NMS	5) (Navigation			

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DEFINITIONS					

The Definitions must be inserted here in each Minimum Equipment List (MEL) from current FAA MMEL Policy Letter PL-25.

The 14 CFR Regulatory requirements applicable to specific MMEL chapters can be found in PL-25, Appendix A. Regulatory requirements must be incorporated into specific MEL relief by the MEL user in accordance with the kinds of operations being conducted by the user.

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PREAMBLE					

The applicable preamble must be inserted here in each Minimum Equipment List (MEL) from current FAA MMEL Policy Letter PL-34, MMEL AND MEL PREAMBLE, or FAA MMEL Policy Letter PL-36, 14 CFR PART 91 MEL APPROVAL.

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GUIDELINES FOR (M) & (O) PROCEDURES					
JASC	Item		Explanation		

The FOEB has identified a need for certain procedures to provide an adequate level of safety while providing relief for some items. These procedures must be established by the operator and may be based on the aircraft manufacturer's recommended procedures, Supplemental Type Certificate modifier's recommended procedures, or equivalent operator procedures. When recommended procedures are published the operator should comply with these procedures. If recommended procedures are not published, the following guidelines delineate the aspects to be considered by the operator in the development of required procedures:

2140	-01	(M) May be inoperative provided procedure to secure valve in OFF position.	I				
2340	-01	(O) Procedure for crew and passenger communication.					
2432	-01	(M) Procedures as required by proviso.					
2500	-02	(M) Procedures as required by proviso.					
2562	-01	(M) Procedures as required by proviso.					
2810	-01	(M) Procedures as required by proviso.					
2841	-01	(O) Procedures as required by proviso.					
3121	-01	(O) Procedures as required by proviso.					
3461	-01	(O) Procedures as required by proviso.	П				
3461	-02	(O) Procedures as required by proviso.	Π				
6321	-01	(O) Procedures as required by proviso.					

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JASC		2. NUMBER INSTALLED					
CODE &	ITEM DESCRIPTION	3. NUMBER REQUIRED FOR DISPATCH					
NO.	DESCRIPTION		4.			REMARKS & EXCEPTI	ONS
21. AIR C	ONDITIONING						
2100-01 ***	Air Conditioner System	С	-	0			
2120-01	Fresh Air Vent	С	C 1 0 May be inoperative provided the vent is secured open.				
2140-01	Cabin Heating System	С	1	0	•) May be inoperative prosecured to the " OFF " po	

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JASC		_			ER INSTALLED			
CODE &	ITEM DESCRIPTION			3. N	UMBER REQUIRED FOR	R DISPATCH		
NO.	DESCRIPTION				4. REMARKS & EXCEP	TIONS		
23. COM	23. COMMUNICATIONS (Cont'd)							
2300-01	External Loud Speaker	С	-	0	As required by 14 CFR.			
2300-02	Cabin ICS System	С	-	0	As required by 14 CFR.			

23. COMN	MUNICATIONS (Cont'	d)				
2300-01	External Loud Speaker	С	-	0	As required by 14 CFR.	
2300-02	Cabin ICS System	С	-	0	As required by 14 CFR.	
2310-01	Communications Systems (HF)	С	-	1	As required by 14 CFR.	
2311-01	Communications Systems (UHF)	С	-	•	As required by 14 CFR.	
2312-01	Communications Systems (VHF)	С	-	0	As required by 14 CFR.	
2312-02	Communications Systems (FM)	С	-	-	As required by 14 CFR.	
2340-01	Cabin ICS System - (Cockpit Crew to Crew and/or Passengers/Crew	C	-	1 1	(O) May be inoperative provided alternate, normal and emergency procedures, and/or operating restrictions are established and used. May be inoperative for non-passenger/crew carrying operations.	1
2370-01 *** (PL-29)	Cockpit Voice Recorder (CVR) Without Flight Data Recorder Installed Independent Power Source	A C	-	-	As required by 14 CFR. OR If installed, may be inoperative provided repairs are made within three flight days.	1
2370-02 *** (PL-29) and (PL-87)	Cockpit Voice Recorder (CVR) With Flight Data Recorder (FDR) Installed	A	-	-	May be inoperative provided repairs are made in accordance with applicable 14 CFRs.	
	Independent Power Source	С	-	•		l

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JASC S	SYSTEM & TITLE	1. REP	AIR CA	TEGORY					
JASC		2.	NUMB	ER INSTALLED					
ITEM	CODE & ITEM TEM TEM TEM DESCRIPTION TEM TE			3. NUMBER REQUIRED FOR DISPATCH					
NO.	BEGOMI HON			4. REMARKS & EXCEPTIONS					

23. COM	MUNICATIONS					
2370-03	Cockpit Voice	Α	-	-	May be inoperative provided repairs	I
	Recorder (CVR)				are made in accordance with	
(PL-29)	Installed For An Operator Other Than A Holder of				applicable 14 CFRs.	
	an Air Carrier or Commercial Operator Certificate					
***	Independent Power Source	С	-	-		Ι

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JASC SYSTEM & TITLE 1. REPAIR CATEGORY										
JASC	ITEN 4	ER INSTALLED								
CODE &	ITEM DESCRIPTION			3. N	UMBER REQUIRED FOR	IMBER REQUIRED FOR DISPATCH				
NO.	DECORN HOR				4. REMARKS & EXCEPT	TONS				
24. ELEC	TRICAL POWER									
2425-01	Alternator Low Voltage Light	В	1	0	May be inoperative provide is operative.	ded ammeter				
2432-01	Voltage Light is operative.									

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JASC CODE &	ITENA		2. N	UMB	ER INSTALLED			
ITEM	ITEM DESCRIPTION			3. N	UMBER REQUIRED FOR	DISPATCH		
NO.					4. REMARKS & EXCEPT	IONS		
25. EQUIF	PMENT/FURNISHIN	GS						
2500-01	Crew Member Shoulder Harness	В	-	1	One may be inoperative or provided the affected sea required and not used.	•		
2500-02	Passenger Seat Belts/Shoulder Harness	С						
2500-03 (PL-116)	NEF Items							
2500-04 ***	Electronic News Gathering (ENG) Equipment	D - May be inoperative provided system is deactivated and secured. (M) and/or (O) procedures may be required and included in the operator's appropriate document.						
2500-05 ***	EMS Equipment	D - 0 (M) May be inoperative provided installation is removed or secured.						
2550-01 ***	Cargo Suspension System	С	-	-			I	
2560-01	EMS Equipment	D	-	0	(M) May be inoperative prinstallation is removed or			

(M) May be inoperative provided installation is removed or secured.

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JASC			2. NUMBE	R INSTALLED						
CODE &	ITEM DESCRIPTION		3. NUMBER REQUIRED FOR DISPATCH							
NO.	BEGORII HOIV		4	4. REMARKS & EXCEPTIONS						

25. EQUI	PMENT/FURNISHIN	GS (C	Cont'	d)		
2562-01 ***	Emergency Locator Transmitter (ELT)					Ι
(PL-120)	Survival Type ELTs	D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing.	
	Fixed ELTs	Α	-	0	(M) May be inoperative, provided:	
		A	-	0	a) System is deactivated,b) Repairs are made within 90 days.May be missing, provided repairs are made within 90 days.	
		D	-	-	(M) Any in excess of those required by 14 CFR, may be inoperative, provided system is deactivated.	
		D	-	-	Any in excess of those required by 14 CFR may be inoperative or missing.	
2562-02 ***	Automatically Deployable Emergency Locator Transmitter (ADELT)	С	-	-		I
2562-03	Sonic Locator	C	-	-		

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JASC	17514		2. N	ER INSTALLED						
CODE &	ITEM DESCRIPTION			3. N	UMBER REQUIRED FOR DISPATCH					
NO.	DESCRIPTION				4. REMARKS & EXCEPT	IONS				
28. FUEL										
2810-01 ***	Auxiliary Fuel Tank	С	-	-	(M) May be inoperative pera) Auxiliary tank is empty disconnected, andb) The fuel gauge is ope	/ and				
2841-01	Fuel Quantity Gauge	В	1	 (O) May be inoperative provided: a) Auxiliary tank is operative. b) Flight is initiated with full Main and Auxiliary tanks, and c) Flight time does not exceed 2 hours. 						

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JASC	ITENA	2. NUMBE			ER INSTALLED		
CODE &	ITEM DESCRIPTION			3. N	UMBER REQUIRED FOR	DISPATCH	
NO.					4. REMARKS & EXCEPT	TONS	
31. INSTE	RUMENTS						
3100-01	Aircraft/Engine Monitoring System	С	-	0			
3120-01	Clock, Displaying Hours, Minutes, and Seconds, with Sweep Second Pointer or Electric Digital Clock	С	-	0	As required by 14 CFR.		
3122-01 ***	Elapsed Timer	С	-	0			
3130-01 ***	Hour Meter	С	-	-	(O) May be inoperative palternative means are utiline recording time in service.	ized for	
3130-02 *** (PL-29)	Cockpit Voice Recorder (CVR) Installed For An Operator Other Than A Holder of an Air Carrier or Commercial Operator Certificate Independent Power Source	C	-	-	May be inoperative provide are made in accordance applicable 14 CFRs.	with	ı
3130-03 *** (PL-29) and (PL-87) ***	Cockpit Voice Recorder (CVR) With Flight Data Recorder (FDR) Installed Independent Power Source	A C	-	-	 May be inoperative provides a) Flight Data Recorder operates normally, an b) Repairs are made with days. 	(FDR) d	

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JASC S	R22 MARINER R44, SYSTEM & TITLE	1		IR CA	TEGORY	30 1				
JASC CODE & ITEM NO.	ITEM DESCRIPTION		2. N	_	R INSTALLED MBER REQUIRED FOR DISPATCH 1. REMARKS & EXCEPTIONS					
33. LIGH1	33. LIGHTS									
3300-01	NVG Compatible Lighting System	С	-	-	Unaided operation (without be permitted with inoperation supplemental lights; cracifilters; provided the remainal Sufficient to clearly illustrated instruments, other devices for which provided. b) Positioned so that directly shielded from flight creating eyes, and c) Lighting configuration is acceptable to the flight	tive NVG ked or missing ining lights are: uminate all controls, and th they are ect rays are ew-members and intensity				
3300-02	Supplemental Lighting System	С	-	-						

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33. LIGHTS (Cont'd)										
3310-01	Cockpit/Flight Deck/Flight Compartment and Instrument Lighting System	C	-	-	One or more may be ino daylight operations. OR Individual Lights may be provided: a) Sufficient lighting is on make each required in control, and other devise provided, easily read in pair visibility either outside the aircraft, c) Sufficient flight decked lighting is operative, d) Lighting intensity can or preset to a satisfact the expected flight core) Lighting configuration	inoperative, perative to instrument, vice for which it adable, ctions do not inside or emergency be controlled ctory level for endition,				

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JASC	ITEN 4		2. N	IUMB	ER INSTALLED				
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NO.	BEGORII HON				4. REMARKS & EXCEP	TIONS			
33. LIGH	ΓS (Cont'd)								
3310-02 ***	Cockpit Utility Light	C - May be inoperative for day operations. OR May be inoperative for night VMC flight provided: a) All normal flight deck lights are operative, b) One flashlight per flight crew is readily available.							
3320-01	Cabin Lighting System	С	1	-	As required by 14 CFR.				
3340-01	Position Light System	С	1	0	One or more may be ino daytime VMC operations				
3340-02	Anti-collision Light Day Operations	В	-	0	As required by 14 CFR. inoperative, OR	May be			
	Night Operations	inoperative.							
3340-03	Landing Lights	C C	C 2 1 One may be inoperative provided an adjustable landing light is installed and operative, OR						
					operations only.	, 5			

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NO.	BECOKII HOW				4. REMARKS & EXCEPT	TONS			
33. LIGHT	rs (Cont'd)								
3340-04	External Search	С	-	1	May be inoperative provide				
***	Light			e its use.					
3340-05	Strobe Lights	С	-	1	May be inoperative provide				
^ * * *					procedures do not require	e its use.			

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NO.	BEGORII HON				4. REMARKS & EXCEPT	TIONS				
34. NAVIO	GATION									
3413-01 ***	Vertical Speed Indicator (VSI)	С	-	0	As required by 14CFR.					
3416-01 ***	Altitude Encoder	D	-	0	As required by 14 CFR.					
3421-01	Attitude Indicator	С	-	0	As required by 14 CFR.					
3421-02 ***	Gyroscopic Bank and Pitch Indicator	С	-	-	As required by 14 CFR.					
3422-01 ***	Directional Gyro	С	-	0	As required by 14 CFR.					
3422-02 ***	RMI	С	-	0	As required by 14 CFR.					
3424-01 ***	Gyroscopic Rate of Turn with Slip Indicator	D	-	0	As required by 14 CFR.					
3434-01 ***	Marker Beacon	D	-	0	As required by 14 CFR.					
3451-01 ***	DME/TACAN	С	-	-	As required by 14 CFR.					
3452-01 ***	SSR (Secondary Surveillance Radar) Transponder	С	-	-	As required by 14 CFR.					
3454-02 ***	VOR/ILS	С	-	-	As required by 14 CFR.					
3455-01 ***	ADF	С	-	-	As required by 14 CFR.					
3457-01	Global Positioning Systems (GPS)	С	-	-	As required by 14 CFR.					

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34. NAVIGATION										
3461-01 *** (PL-98)	Flight Management System (FMS)	С	-	-	 (O) May be out of currency provided: a) Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch b) Procedures are used to verify status and suitability of Navigation Facilities used to define route of flight, and c) Approach Navigation Radios are manually tuned and identified. 					
3461-02 *** (PL-98)	Navigation Management System (NMS)	С	-	-	 (O) May be out of currency provided: a) Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch b) Procedures are used to verify status and suitability of Navigation Facilities used to define route of flight, and c) Approach Navigation Radios are manually tuned and identified. 					

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JASC SYSTEM & TITLE 1. REPAIR CAT					ATEGORY				
JASC		2. NUMBER INSTALLED							
CODE &	ITEM DESCRIPTION			3. N	NUMBER REQUIRED FOR DISPATCH				
NO.	DESCRIPTION				4. REMARKS & EXCEPTIONS				
63. MAIN ROTOR DRIVE									
6321-01	Rotor Brake System	С	1 (O) May be inoperative provided a Check is performed to determine the main rotor is free to rotate.						

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MASTER MINIMUM EQUIPMENT LIST								
AIRCRAFT:					REVISION NO. 3	PAGE NO.		
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JASC SYSTEM & TITLE 1. REPAIR CAT					TEGORY			
JASC			2. N	IUMBER INSTALLED				
CODE &				3. N	UMBER REQUIRED FO	RED FOR DISPATCH		
NO.					4. REMARKS & EXCER	PTIONS		
71. POWE	71. POWER PLANT							
7100-01 ***	Electronic Engine RPM Governor	С	1	0				

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R22, R22 ALPHA, R22 BETA, R22 MARINER R44, R44 II					DATE: 09/16/2014	77 - I			
JASC SYSTEM & TITLE 1. REPAIR					ATEGORY				
JASC CODE & ITEM NO.	ITEM DESCRIPTION	3. NU			R INSTALLED JMBER REQUIRED FOR DISPATCH 4. REMARKS & EXCEPTIONS				
77. ENGIN	77. ENGINE INDICATING								
7714-01	Tachometer, Engine	A	1	0	May be inoperative for up to three days provided: a) Rotor tachometer is operative, and b) Aircraft shall not depart an airport where repairs or replacement can be made.				